

WHAT IS CLAIMED IS:

Sub. D2
contd. 1. A recombinant Sendai virus containing a genome having a desired foreign gene inserted, or a desired gene deleted or inactivated, but retaining the disseminative capability.

2. The recombinant Sendai virus of Claim 1 in which one or more than one gene encoding viral functional proteins are altered.

3. The recombinant Sendai virus of Claims 1 or 2 carrying a foreign gene capable of being expressed in hosts.

4. An RNA molecule comprising RNA contained in the recombinant Sendai virus of any one of Claims 1-3.

5. An RNA molecule comprising cRNAs or RNAs contained in the recombinant Sendai virus of any one of Claims 1-3.

6. A kit comprising

a. a DNA molecule containing a template cDNA capable of transcribing RNA of Claims 4 or 5, and

b. a unit capable of transcribing said RNA of Claims 4 or 5 with said DNA as template in vitro or intracellularly.

7. A kit comprising

a. a host expressing the NP, P, and L proteins of Sendai virus (each protein may be replaced with a protein of an equivalent activity), and

b. the RNA molecule of Claims 4 or 5.

8. A method for producing the recombinant Sendai virus of any one of Claims 1-3, comprising transfecting RNA of Claims 4 or 5 to a host expressing the NP, P/C and L proteins of Sendai virus (each protein may be replaced with a protein of

an equivalent activity).

9. A kit consisting of the following three components,

a. a host expressing the NP, P/C and L proteins of Sendai virus,

b. a DNA molecule containing a template cDNA capable of transcribing RNA or cRNA of any one of Claims 4 or 5, and

c. a unit capable of transcribing RNA of Claims 4 or 5 with said DNA as template in vitro or intracellularly.

10. A method for producing the recombinant Sendai virus of any one of Claims 1-3, wherein said method comprises introducing a DNA molecule containing a template cDNA capable of transcribing RNA of Claims 4 or 5, and a unit capable of transcribing RNA of Claims 4 or 5 with said DNA as template in vitro or intracellularly into a host expressing the NP, P/C and L proteins of Sendai virus.

11. A method for producing a foreign protein, comprising a process of infecting a host with the recombinant Sendai virus of Claim 3, and recovering expressed foreign proteins.

12. A culture medium or allantoic fluid containing the expressed foreign proteins obtainable by transfecting the recombinant Sendai virus of Claim 3 to a host, and recovering said culture medium or allantoic fluid.

13. A DNA molecule for expressing a protein encoded by a foreign gene integrated into a Sendai virus vector comprising said foreign gene inserted downstream of a promoter in an (antisense) orientation for the transcription of antisense RNA encoding said protein and said promoter.